

The future-proof motor generation.



With the new m550 three-phase AC motors we offer you a future-proof drive solution for your machine. They also meet the legal requirements of the world's most important regions such as the USA, Europe and Asia.

The IE2-high efficiency motor type m550-H covers the power range of 0.12 ... 0.55 kW.

The IE3-premium efficiency motor type m550-P covers the power range of 0.75 ... 22 kW.

The application-oriented modular system offers solutions for a variety of machine tasks. Our digital services also enable quick selection and easy integration into your business processes.

Highlights

- Energy efficiency classes for an economic and future-proof use in many applications and countries
- Scalable modular system for optimum adjustment to machine requirements
- Easy connection via terminal box or conventional plug connectors for fast commissioning
- Optimized for use as geared motors with g500 gearboxes and i510 cabinet und i550 cabinet frequency inverters

m550 three-phase AC motors

The m550 three-phase AC motors form the basis for a coordinated mechatronic system consisting of geared motor, inverter and connection topology.

Choose the right drive from a wide range of options to solve the tasks of your machine in the best possible way.

Connection options:

- Direct mains connection or operation on frequency inverter
- Holding brake or application brake
- Feedback systems such as resolvers, incremental encoders and absolute value encoders
- Blower
- Temperature monitoring with thermal contact or PT1000 in addition
- Second shaft end with and without hand wheel

The EASY Product Finder helps you to find the right product.



m550 three-phase AC motor with 8400 motec frequency inverter as bevel geared motor

Technical data

Overview data

| Motors | Power range | Supply voltage |
|-------------------|------------------|---------------------|
| m550-H IE2 motors | 0.12 ... 0.55 kW | 230/400 V and 460 V |
| m550-P IE3 motors | 0.75 ... 22 kW | |

Rated data at 400 V, 50 Hz, 4-pole

| Motor | | | m550-H | | | | |
|---------------|-------------|----|--------|-------|-------|-------|-------|
| | | | 63/S4 | 63/M4 | 63/L4 | 71/M4 | 71/L4 |
| Rated power | P_N | kW | 0.12 | 0.18 | 0.25 | 0.37 | 0.55 |
| Rated current | I_{rated} | A | 0.410 | 0.540 | 0.680 | 0.990 | 1.35 |
| Rated torque | M_{rated} | Nm | 0.810 | 1.23 | 1.72 | 2.48 | 3.67 |

| Motor | | | m550-P | | | | | |
|---------------|-------------|----|--------|-------|-------|--------|--------|--------|
| | | | 80/M4 | 90/M4 | 90/L4 | 100/M4 | 100/L4 | 112/M4 |
| Rated power | P_N | kW | 0.75 | 1.1 | 1.5 | 2.2 | 3 | 4 |
| Rated current | I_{rated} | A | 1.60 | 2.31 | 3.18 | 4.46 | 6.10 | 7.82 |
| Rated torque | M_{rated} | Nm | 4.92 | 7.17 | 9.78 | 14.3 | 19.5 | 26.0 |

| Motor | | | m550-P | | | | | |
|---------------|-------------|----|--------|--------|--------|--------|--------|--------|
| | | | 132/M4 | 132/L4 | 160/M4 | 160/L4 | 180/M4 | 180/L4 |
| Rated power | P_N | kW | 5.5 | 7.5 | 11 | 15 | 18.5 | 22 |
| Rated current | I_{rated} | A | 10.6 | 14.6 | 20.8 | 28.4 | 33.3 | 38.8 |
| Rated torque | M_{rated} | Nm | 35.5 | 48.4 | 70.7 | 96.5 | 119 | 142 |